

**Programmers always want better languages  
than we can write compilers for**

therefore, we need

**new compiler writing techniques**

to focus on the essence of the compiler instead of boring details

Parsing  
already solved

**Analysis & transformation**  
focus of my research

Code generation  
outside scope

implemented by

Syntax tree traversals

techniques for compiler writers

'60

pointers, stacks & queues

generates

focus on essence

challenges for compiler writers

'70

recursive functions

makes possible

big languages

generates

focus on essence

'80

generalized folds/algebras

makes possible

syntax extensions

generates

focus on essence

our  
work

attribute grammars

makes possible

many features

generates

focus on essence

executable, modular  
specification

makes possible

feature interaction